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- 1 [Techniques for obtaining high performance in Java programs](#)
Ifat H. Kazi, Howard H. Chen, Berdenia Stanley, David J. Liija
September 2000 **Computing Surveys (CSUR)**, Volume 32 Issue 3

Publisher: ACM ☒ Request Permissions

 Full text available: ☒ Pdf (816.13 KB)

Additional Information: full citation, abs

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 487, Downl

This survey describes research directions in techniques to improve the programming language. The standard technique for Java execution is in portability of programs. ...

Keywords: Java, Java virtual machine, bytecode-to-source translators, interpreters, just-in-time compilers

- 2 [Pin: building customized program analysis tools with dynamic instrur](#)
☒ Chi-Keung Luk, Robert Cohn, Robert Muth, Harish Patil, Artur Klauser, Geo Reddi, Kim Hazelwood
June 2005 **PLDI '05: Proceedings of the 2005 ACM SIGPLAN conference implementation**

Publisher: ACM ☒ Request Permissions

 Full text available: ☒ Pdf (300.61 KB)

Additional Information: full citation, abs

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Robust and powerful software instrumentation tools are essential for performance evaluation, and bug detection. To meet this need, we have called *Pin*. Our goals are ...

Keywords: dynamic compilation, instrumentation, program analysis to

Also published in:

 June 2005 **SIGPLAN Notices** Volume 40 Issue 6

- 3 [LLVA: A Low-level Virtual Instruction Set Architecture](#)


 Vikram Adve, Chris Latimer, Michael Brukman, Anand Shukla, Brian Gaeke
December 2003 **MI CRO 36: Proceedings of the 36th annual IEEE/ACM Inte**
Publisher: IEEE Computer Society

 Full text available: ☒ Pdf (196.08 KB)


Additional Information: full citation, abs

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 32, Download

A virtual instruction set architecture (V-ISA) implemented via a process provide great flexibility to processor designers. Recent examples such as existing hardware instruction ...

- 4 [A simplified java bytecode compilation system for resource-constrained](#)
 [Carmen Badea, Alexandru Nicolau, Alexander V. Veidenbaum](#)
 September 2007 **CASES '07**: Proceedings of the 2007 international conference for embedded systems

Publisher: ACM

Full text available:  [Pdf](#) (439.70 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 62, Download

Embedded platforms are resource-constrained systems in which performance code are of critical importance. However, standard techniques such as full adaptive optimization (AO) may ...

Keywords: adaptive optimization, embedded systems, java virtual machine superoperators

- 5 [Communications of the ACM: Volume 51 Issue 8](#)


 August 2008 Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#),  [Pdf](#) (6.85 MB) Additional Information: [full citation](#)


Bibliometrics: Downloads (6 Weeks): 299, Downloads (12 Months): 2192, Download

- 6 [A dynamic binary instrumentation engine for the ARM architecture](#)

 [Kim Hazelwood, Artur Klauser](#)

October 2006 **CASES '06**: Proceedings of the 2006 international conference on embedded systems

Publisher: ACM

Full text available:  [Pdf](#) (455.03 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 99, Download

Dynamic binary instrumentation (DBI) is a powerful technique for analyzing numerous DBI frameworks have been developed for general-purpose architectures has been ...


Keywords: binary instrumentation, dynamic translation, embedded architectures

- 7 [Dynamic metrics for java](#)

 [Bruno Dufour, Karel Driesen, Laurie Hendren, Clark Verbrugge](#)

November 2003 **OOPSLA '03**: Proceedings of the 18th annual ACM SIGPLAN conference on systems, languages, and applications

Publisher: ACM 

Full text available:  [Pdf](#) (222.67 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 148, Download

In order to perform meaningful experiments in optimizing compilation a usually rely on a suite of benchmark programs of interest to the optimizer are described as *numeric*, ...

Keywords: Java, dynamic metrics, execution traces, optimization, profiling

Also published in:


November 2003 **SIGPLAN Notices** Volume 38 Issue 11

8 [Statistically rigorous java performance evaluation](#)

 Andy Georges, Dries Buytaert, Lieven Eeckhout

October 2007 **OOPSLA '07**: Proceedings of the 22nd annual ACM SIGPLAN systems and applications

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.63 MB)

[Additional Information: full citation, abstract](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 178, Downloads

Java performance is far from being trivial to benchmark because it is affected by application, its input, the virtual machine, the garbage collector, the heap, and run-time causes ...

Keywords: benchmarking, data analysis, java, methodology, statistics

Also published in:


October 2007 **SIGPLAN Notices** Volume 42 Issue 10

9 [HPC.NET - are CLI-based Virtual Machines Suitable for High Performance Computing?](#)

 Werner Vogels

November 2003 **SC '03**: Proceedings of the 2003 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society


Full text available:  Pdf (163.35 KB)

[Additional Information: full citation, abstract](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 53, Downloads


The Common Language Infrastructure is a new, standardized virtual machine architecture that runs on several platforms. In this paper we review whether this technology has the potential to benefit the community, for example by ...

10 [LLVM: A Compilation Framework for Lifelong Program Analysis & Transformation](#)

 Chris Lattner, Vikram Adve

March 2004 **CGO '04**: Proceedings of the international symposium on Compiler construction and runtime optimization



Publisher: IEEE Computer Society

Full text available:  Pdf (256.90 KB)

[Additional Information: full citation, abstract](#)




Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 190, Downloads

This paper describes LLVM (Low Level Virtual Machine), a compiler framework for performing lifelong program analysis and transformation for arbitrary programs, by performing compiler transformations at compile-time, ...

- 11 [Information systems outsourcing: a survey and analysis of the literature](#)
 Jens Dibbern, Tim Gales, Rudy Hirschheim, Bandula Jayatilaka
 November 2004 **SIGMIS Database**, Volume 35 Issue 4
Publisher: ACM
 Full text available:  Pdf (1.51 MB) Additional Information: full citation, abstract
Bibliometrics: Downloads (6 Weeks): 355, Downloads (12 Months): 3208, Downloads

In the last fifteen years, academic research on information systems (IS) field of outsourcing research has grown so fast that there has been scarce take a collective ...

Keywords: determinants, literature review, outcomes, outsourcing, relational foundations

- 12 [Minimizing dependencies within generic classes for faster and smaller](#)
 Dan Tsafir, Robert W. Wisniewski, David F. Bacon, Bjarne Stroustrup
 October 2009 **OOPSLA '09: Proceeding of the 24th ACM SIGPLAN conference on languages and applications**
Publisher: ACM 
 Full text available:  Pdf (604.18 KB) Additional Information: full citation, abstract
Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 12, Downloads

Generic classes can be used to improve performance by allowing compile-time polymorphism is narrower than that of runtime polymorphism advocate a programming ...

Keywords: generalized hoisting, generics, scary assignments and initialization


Also published in:

October 2009 **SIGPLAN Notices** Volume 44 Issue 10

- 13 [A fast, memory-efficient register allocation framework for embedded](#)
 Sathyanarayanan, Tammanur, Santosh Pande
 November 2004 **Transactions on Programming Languages and Systems**
Publisher: ACM 
 Full text available:  Pdf (1.01 MB) Additional Information: full citation, abstract
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 67, Downloads

In this work, we describe a "just-in-time," ϵ -usage density-based register systems with a limited general-purpose register set wherein speed, code concern. The main ...

Keywords: Code generation, compiler optimizations, compilers, dynamic allocation

- 14 [The ExoVM system for automatic VM and application reduction](#)
 Ben L. Titzer, Joshua Auerbach, David F. Bacon, Jens Palsberg
 June 2007 **PLDI '07: Proceedings of the 2007 ACM SIGPLAN conference**




implementation

Publisher: ACM  [Request Permissions](#)Full text available:  Pdf (510.60 KB)Additional Information: [full citation](#), [abs](#)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 64, Download

Embedded systems pose unique challenges to Java application developers. One of these challenges is the memory footprint of both the virtual machine and the application, which is rapidly increasing ...


Keywords: VM design, VM modularity, dead code elimination, embedded initialization, static analysis, static compilation

Also published in:

June 2007 **SIGPLAN Notices** Volume 42 Issue 6**15** [Communications of the ACM: Volume 52 Issue 10](#) October 2009 Communications of the ACM**Publisher:** ACMFull text available:  Digital Edition ,  Pdf (7.38 MB) Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 6420, Downloads (12 Months): 6420, Downloads**16** [Design of the Java HotSpot™ client compiler for Java 6](#) Thomas Kotzmann, Christian Wimmer, Hanspeter Mösenböck, Thomas Roßmayr
May 2008 **Transactions on Architecture and Code Optimization (TACO)****Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (1.14 MB)Additional Information: [full citation](#), [abs](#)**Bibliometrics:** Downloads (6 Weeks): 40, Downloads (12 Months): 433, Downloads

Version 6 of Sun Microsystems' Java HotSpot™ VM ships with a redesign that includes several research results of the last years. The client compiler is now the default ...


Keywords: Java, compiler, deoptimization, intermediate representation, register allocation

17 [Revisiting Out-of-SSA Translation for Correctness, Code Quality and Performance](#)Benoit Boissinot, Alain Darté, Fabrice Flastello, Benoît Dupont de Dinechin,
March 2009 **CGO '09: Proceedings of the 2009 International Symposium on Compiler Construction****Publisher:** IEEE Computer SocietyFull text available:  Pdf (287.20 KB)Additional Information: [full citation](#), [abs](#)**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 80, Downloads

Static single assignment (SSA) form is an intermediate program representation that can be performed with fast and easy-to-implement algorithms. However, so far, it has been used only in a limited number of cases, where the SSA variables ...


Keywords: SSA form, Compilers, JIT-compilation

18 [Using continuous statistical machine learning to enable high-speed & instruction-cycle-accurate instruction set simulators](#)

 Daniel Christopher Powell, Björn Franke

October 2009 **CODES+ ISSS '09**: Proceedings of the 7th IEEE/ACM international code design and system synthesis

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (807.00 KB)

[Additional Information: full citation, abstract](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 5, Download

Functional instruction set simulators perform instruction-accurate simulation. Unlike their slower, but cycle-accurate counterparts however, they are not at the higher level ...


Keywords: continuous statistical machine learning, instruction set simulation

19 [Application of a multi-criteria simulation optimization based DSS](#)

A. Azadeh, S. F. Ghaderi, A. Dabbaghi, M. Dehghanbaghi

July 2007 **SCSC**: Proceedings of the 2007 summer computer simulation

Publisher: Society for Computer Simulation International

Full text available:  Pdf (209.58 KB)


[Additional Information: full citation, abstract](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 43, Download

In this study we propose a decision support system for a textile dyeing, simulation model itself, enables managers to find a schedule of jobs on decision parameters) ...

Keywords: goal programming, metamodel, multi-criteria decision making factors

20 [Online performance auditing: using hot optimizations without getting](#)

 Jeremy Lau, Matthew Arnold, Michael Hind, Brad Calder

June 2006 **PLDI '06**: Proceedings of the 2006 ACM SIGPLAN conference on programming language design and implementation

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (281.62 KB)

[Additional Information: full citation, abstract](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 103, Download

As hardware complexity increases and virtualization is added at more layers, the performance impact of optimizations becomes increasingly difficult. Proving a substantial development ...

Keywords: Java, feedback-directed optimizations, virtual machines

Also published in:

June 2006 **SIGPLAN Notices** Volume 41 Issue 6

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